## ISSUE SLIP STAPLE AREA (for additional cross references)

| INITIALS | ID NO.   | DATE            |
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## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|     | Clai                 |            |              |                   |    |                   |   | Da       | ite      |              |           |          |           |                    | Cla           | im       |                   |              |              | _            | Da       | ate          |        |                |           |  | ]   | Cia          | aim        |          | _  |          | Dat      | le       |          |        |   |  |
|-----|----------------------|------------|--------------|-------------------|----|-------------------|---|----------|----------|--------------|-----------|----------|-----------|--------------------|---------------|----------|-------------------|--------------|--------------|--------------|----------|--------------|--------|----------------|-----------|--|-----|--------------|------------|----------|--|----------|----------|----------|----------|--------|---|--|
|     | $\Box$               | _ Priginal | 69           | C02/6/63          | K  | 20/02k            |   |          | Γ        | T            | T         |          |           | `                  | $\Box$        | a        | .> 05/23 ps       | 3            | 3            | $\sqrt{}$    | Γ        | Γ            | T      |                | Γ         |  |     |              | 1 —        |          |  |          |          |          |          |        |   | Ī  |
|     | 圆                    | ğ          | ź            | B                 |    | 3                 |   |          |          |              |           |          |           |                    | ā             | Original | 13                | Co/00/00)    | 10/2/10      |              |          |              |        |                |           |  | ļ   | <del>-</del> | Original   |          |  |          |          |          |          |        |   |  |
|     | EZ.                  | چ          | 50           | 8                 | 1  | 3                 |   |          | 1        | 1            | -         |          |           |                    | Final         | õ        | 8                 | 8            | 3            | 1            |          |              |        |                |           | 1  | İ   | Final        | ō          |          |  |          |          |          |          |        |   |  |
|     |                      | 1          | Ŀ            | 1                 | ٦, | 7                 |   | Г        | 1        | Т            | П         |          | П         | 7 [                |               | 51       | ٠,                |              | 7            | 1            | Т        | Т            |        | Τ              | Τ         | П  | 1   |              | 101        | Γ        |  |          |          |          |          |        |   | Т  |
|     |                      | 12         | -            | 1                 | 1  | 7                 |   |          | Τ        | T            | T         |          |           | 7                  |               | 52       | 1                 | 1            | 1            | Τ            | T        | $\top$       | Τ      | Τ              | Ì         |  | 1   | Г            | 102        | _        |  | Г        |          |          | М        |        |   | T  |
|     |                      | 3          | 1            | 11                | T  | П                 | _ |          | T        | †            | 7         |          |           | 7                  |               | 53       | $\top$            | T            | П            | 1            | +        | $\top$       |        | 1              |           | 1  | 1   |              | 103        | T        |  | 1        | Г        | -        | М        |        | Н | <del>                                     </del> |
|     | $\vdash$             | 4          | $\forall$    | H                 | t  | Ħ                 | _ | ╁        | †-       | $^{\dagger}$ | 7         | _        | $\Box$    | 7                  |               | 54       | 1                 |              | М            | 1            | +-       | +            | $\top$ | $\dagger$      | †-        | 1  | 1   | $\vdash$     | 104        |          |  | $\vdash$ | $\vdash$ | $\vdash$ | Н        |        | - | ${}^{\dagger}$                                   |
|     | H                    | 5          | $\exists$    | H                 | †  | Ħ                 |   |          | T        | T            | 7         |          |           | ⊢ i                | ヿ             | 55       | $\top$            | 1            | П            |              | Τ        | T            |        | †              | 1         | T  | 1   |              | 105        | T        | $\vdash$   |          |          |          | _        |        | Т | $\vdash$   |
|     |                      | 6          | $\forall$    | П                 | T  | П                 |   | 1        | T        | T            | $\top$    |          | П         | 7 1                |               | 56       | П                 | 1            | П            |              | 1        | 1            | $\top$ | 1              |           |  | 1   |              | 106        |          |  |          | _        |          |          |        |   | 1  |
|     | $\Box$               | 7          | 7            | Ħ                 | Ħ  | Ħ                 |   | $\vdash$ | 1        | Ť            | 7         |          | П         | 7                  |               | 57       | П                 |              | П            |              | T        | 1            | 1      | 1              | Т         |  | 1   |              | 107        |          | _  | $\vdash$ |          |          |          |        | - | ⇈  |
|     | $\Box$               | 8          | +            | Π                 | Ħ  |                   | _ | П        | T        | Ť            | 7         |          | $\Box$    | 7 1                | _             | 58       | Ħ                 | 1            |              |              | 1        | 1            | 1      | 1              | T         | ✝  | 1   |              | 108        |          | Г  |          |          |          |          |        |   | ⇈  |
| É   | $\Box$               | 9          | †            | $\dagger$         | Ħ  |                   |   | _        | T        | $\dagger$    | 7         |          |           | 7 1                | ヿ             | 59       | $\top$            | 1            | П            |              | 1        | 1            | 1      | 1              | Τ         | <del>                                     </del> | 1   |              | 109        | $\vdash$ | <b></b> -  | Т        | 1        |          |          |        |   | <u> </u>   |
| į.  |                      | 10         | 1            |                   | Н  | П                 |   |          | T        | Ť            | 7         |          | $\Box$    | 7 1                | 7             | 60       | 4                 | 1            | П            | Τ            | 1        | T            | $\top$ | Τ              | T         | T  | 1   |              | 110        | 1        |  | Т        | $\vdash$ |          |          |        | - | $\vdash$   |
| •   |                      | 11         | $\dagger$    | $\dagger$         | t  | H                 |   | Г        | T        | $\dagger$    | 7         |          | $\Box$    | 7 1                | 7             | 61       | 1                 | 1            | П            | Τ            | T        | T            | $\top$ | T              | T         | T  | 1   |              | 111        | 1-       | Ι.   | $\Box$   | Г        |          | П        |        |   | $\vdash$   |
|     |                      | 12         | $\dagger$    | $\dagger$         | T  | H                 |   | T        | T        | $\dagger$    | 1         |          |           | 7 1                | 7             | 62       | $\forall$         | 1            |              | Τ            | 1        | 1            | 1      | T              | T         | 1  | 1   |              | 112        |          |  |          |          |          |          |        |   |  |
|     | $\sqcap$             | 13         | $\dagger$    | $\parallel$       | T  | H                 |   | Ι        | T        | +            | +         |          | 1         | 7                  | 寸             | 63       | 71                | 1            | Π            | T            | 1        |              | T      | T              | $\dagger$ | 1  | 1   |              | 113        |          |  |          |          |          |          |        |   |  |
|     |                      | 14         | 十            | 1                 | Ħ  | Н                 |   | T        | T        | $\dagger$    | 1         |          | $\Box$    | 7                  | $\neg$        | 64       | Ħ                 | 1            | П            | 1            | T        |              | 1      | T              | T         |  | 1   |              | 114        | T        | Г  | Г        | П        | П        |          |        |   |  |
|     | -                    | 15         | †            | T                 | H  | $\forall$         |   |          | 1        | †            | +         |          |           | 7                  |               | 65       | $\dagger \dagger$ | 1            | rt           | 1            | T        | †            | 1      | Τ              | T         | T  | 1   | $\Box$       | 115        |          |  | П        | П        | М        |          | $\neg$ |   | Г  |
|     |                      | 16         | $\dagger$    | H                 | Ħ  | 7                 |   |          | T        | $^{\dagger}$ | $\forall$ | $\neg$   | -         | 7                  | $\overline{}$ | 66       | 71                | T            | T            | 1            | 1        | Τ            | †      | 1-             | T         | T  | 1   |              | 116        |          | Ι  |          |          | П        |          | $\neg$ |   | Г  |
|     |                      | 17         | $^{\dagger}$ | $\dagger \dagger$ | H  | +                 |   | 1        | T        | $^{+}$       | 7         | $\dashv$ | $\vdash$  | → †                | _             | 67       | H                 | T            | 7            | 1            | T        | 1            | 1      | T              | T         | $\vdash$   | 1   |              | 117        |          |  | П        | П        | $\dashv$ |          |        |   | Г  |
|     |                      | 18         | T            | $\dagger$         | Ħ  | 7                 |   |          | T        | +            | +         |          | $\neg$    | 7 1                | 1             |          | 1                 |              |              | T            | T        | 1            | 1      | T              | T         | 1  | 1   |              | 118        |          |  | П        |          | П        | $\dashv$ |        | _ | Г  |
|     |                      | 19         | ۲            | H                 | Ħ  | 7                 |   |          | $\vdash$ | 1            | 1         | ┪        | $\neg$    | ,                  |               |          | П                 | П            | 7            | 1            | †        | 1            | $\top$ | 1              | †         |  | 1   |              | 119        |          |  |          |          |          |          | _      |   | Г  |
|     | _                    | 20         | 1            | H                 | Ħ  | 1                 |   | H        | T        | t            | $^{+}$    | 7        |           | -                  |               |          | 11                | 1            | $\checkmark$ | $\vdash$     | Т        | †-           | T      | T              | ✝         | T  | 1   | Г            | 120        | 1        |  |          |          |          | 一        | $\neg$ | _ | П  |
|     | -                    | 21         | H            | Η-                | H  | +                 | - | $\vdash$ | $\vdash$ | ╁            | +         | $\dashv$ | $\dashv$  | $\dashv$ $\dagger$ | -             |          | ┪                 | +            |              | ┪            | +        | +            | 十      | $\vdash$       | +         | $\vdash$   | 1   | $\vdash$     | 121        | -        | -  | -        |          | $\dashv$ |          |        |   | T  |
|     |                      | 22         | -            | ╫                 | H  | $^{+}$            |   | ┝        | ╁        | ╁            | $\dashv$  | ᅱ        | +         | - H                | ┪             | 72       | ╁                 | +            | ۲,           | <del> </del> | +-       | +-           | +-     | 1-             | ┼         | <del>                                     </del> | 1   | Н            | 122        |          | <del>                                     </del> |          | -        | $\dashv$ | _        | -1     |   |  |
| ٠   |                      | 23         | H            | +                 | H  | +                 |   | -        | 1        | ╁            | $\dashv$  | $\dashv$ | $\dashv$  | -                  |               | 73       | ╁                 | +            | 不            | +            | ╁        | ╁            | +      | +              | ╁         | ╁╌   | 1   |              | 123        |          | -  |          |          | $\dashv$ |          | ᅥ      | _ | H  |
|     |                      | 24         | ╁            | Н                 | H  | +                 | - | -        | $\vdash$ | +            | +         | $\dashv$ | -+        | -                  | _             | 74       | +                 | +            | Н            | ╁            | ╁        | +-           | +-     | +              | ┼         | <del> </del>                                     | 1   | Н            | 124        | -        | -  |          | $\vdash$ |          |          | 一      | _ | <u> </u>   |
|     | _                    | 25         | H            | H                 | Н  | $\forall$         |   | ┢        | $\vdash$ | +            | +         | _        | -+        | <b>-</b>           |               | 75       | +                 |              | Н            | ╁            | ┼        | 1            | 1      | ${}^{\dagger}$ | t         | <del>                                     </del> | 1   | -            | 125        | $\vdash$ |  | Н        |          |          | $\neg$   | T†     |   |  |
|     |                      | 26         | $\vdash$     | H                 | H  | +                 |   | -        | t        | +            | +         | $\dashv$ | +         | -   -              |               | 76       | H                 | +            | H            | ╁            | 1        | 1-           | †      | $\vdash$       | ✝         | <del>                                     </del> | 1   | Н            | 126        | $\vdash$ |  |          |          |          | $\neg$   |        | _ | $\Box$   |
| *** |                      | 27         | t            | Н                 | Н  | H                 |   |          | $\vdash$ | $^{+}$       | +         | _        | $\dashv$  | -1 t               |               | 77       | H                 |              | H            | 1-           | $\vdash$ | $^{\dagger}$ | $\top$ | T              | t         | $\vdash$   | 1   | -            | 127        | $\vdash$ |  |          |          |          | T        | $\neg$ |   | П  |
|     |                      | 28         | t            | H                 | Н  | +                 |   | $\vdash$ | +-       | +            | +         | -        |           | - I                |               | 78       | 11                | $\downarrow$ | H            | 1            | +        | $\top$       | ┰      | 1-             | +         |  | 1   |              | 128        | $\vdash$ |  |          |          |          |          | _      | _ |  |
|     |                      | 29         | 十            | H                 | H  | 7                 |   | ┢╌       | t        | $^{\dagger}$ | +         |          | $\dashv$  | <b>-</b>           |               | 79       | +                 | ⋨            | Н            | $\vdash$     | +        | T            | t      | T              | T         |  | 1   | -            | 129        |          |  |          |          |          |          |        |   |  |
| Ź   |                      | 30         | +            | H                 | Ħ  | 7                 | _ | H        | $t^-$    | +            | +         |          | $\neg$    | $\dashv$           | _             | 80       |                   |              | ٦            | †            | †        | 1            | †      | 1              | T         | T  | 1   | $\vdash$     | 130        |          |  |          |          |          |          | $\neg$ |   |  |
| 7 ° |                      | 31         | †            | H                 | 1  | 4                 |   |          | ╁        | +            | +         |          | -         | <b>-1</b>          |               | 81       |                   |              | H            | 1            | $\top$   | 1            | †      |                |           | T  | 1   |              | 131        |          |  |          |          |          |          | 乛      |   |  |
|     |                      |            | Ť            | H                 | N  |                   |   | <u> </u> | ╁        | T            | 7         |          |           | 7                  | 寸             | 82       | $\neg$            |              | Ħ            | T            | 1        | T            | 1      |                | T         | 1  | 1   | Г            | 132        |          |  |          |          |          |          | $\neg$ |   |  |
|     |                      | 33         | $\dagger$    | H                 | t  | N                 | _ | Ė        | ╁        | 十            | +         | 1        | $\exists$ | 7 1                | $\rightarrow$ | 83       |                   |              | Ħ            | †            | T        | 1-           | 1      | Т              | T         |  | 1   | Г            | 133        |          |  |          | _        |          |          | $\neg$ |   |  |
|     |                      |            | +            | П                 |    | H                 |   |          | ✝        | T            | 7         | 寸        |           | 1                  |               | 84       | $\neg$            |              | J            | $\top$       | T        | 1            | T      |                |           | 1  | 1   | $\Box$       | 134        |          |  |          |          |          |          |        |   | L  |
|     |                      | 35         | †            | $\dagger$         | ſ  | И                 |   |          | T        | $\dagger$    | +         |          |           | 7_1                | 丁             | 85       |                   | _            | Ž            | 1            | T        | Τ            | T      | 1              | T         | Π  | ]   | П            | 135        |          |  |          |          |          |          |        |   | Ĺ  |
|     |                      | 36         | ול           | 1                 |    | N                 |   |          | T        | T            | 1         |          |           | 7                  | T             | 86       |                   |              |              |              | T        | Т            |        | Γ              | Γ         | Γ  | ]   |              | 136        |          |  |          |          |          |          |        |   |  |
|     | _                    | 37         | $\top$       |                   | T  | $\dagger \dagger$ |   |          | T        | Ť            | 7         | $\dashv$ | $\sqcap$  | 7                  |               | 87       |                   | _            | Г            | Τ            | Τ        |              | T      | Τ              | Π         |  | ]   |              | 137        |          |  |          |          |          |          |        | _ | L  |
|     | l i                  | 38         | $\top$       |                   | Γ  | 11                |   | Ī        | Τ        | T            |           |          |           | 7                  |               | 88       |                   |              |              |              | Τ        | Ι            | Ι      | Γ              | Γ         | L  | ]   |              | 138        |          |  |          |          |          |          | _      |   | L  |
|     | H:                   | 39         | 1            | 1                 | T  | Ħ                 |   |          | $\top$   | 1            | 7         |          |           | 7                  |               | 89       | ╗                 |              |              | Τ            | Ι        | Ι            | Γ      |                | Γ         |  | ] . |              | 139        |          |  |          |          |          |          | $\Box$ |   | L  |
|     | T,                   | 40         | $\top$       | $\sqcap$          | Ī  | П                 |   |          | 1        | T            | 7         |          |           | 7                  |               | 90       |                   |              |              |              | Π        | Γ            | Γ      | Γ              | Γ         | [  |     |              | 140        |          |  |          |          |          |          |        |   |  |
|     | 1                    | 41         | $\top$       | П                 | T  | Ħ                 | - | T        | T        | $\top$       | +         | ٦        |           | 7                  |               | 91       |                   |              | Γ            |              |          | 1            | Ι.     |                |           |  |     |              | 141        |          |  |          |          |          |          |        | _ |  |
|     |                      | 42         | +            | 1                 | t  | H                 |   | -        | 1        | t            | +         |          |           | <b>-</b>           |               | 92       |                   |              | Г            | $\dagger$    | K        | ۲,           | \$1    | 1              | Δ         | V  | Α   | I            | 141<br>143 | KI       | -  |          |          |          | 1        | ע      | Y |  |
|     | $  \uparrow \rangle$ |            | $\top$       | H                 | t  | H                 |   |          |          | +            | 寸         |          |           | -                  |               | 93       | П                 |              |              |              | 71       | +            | اح     | 7              |           | V  | 7   |              | 43         | 7 E      | E  |          |          | '        |          |        | ı | $oxed{oxed}$                                     |
|     |                      | 44         | T            | 1                 | T  | $\dagger \dagger$ |   |          | T        | $\top$       | 1         |          |           | 7 Ì                |               | 94       | _                 |              |              | 1            | Τ        | 1            | Τ      | T              | Τ         | Γ  | ]   |              | 144        |          |  |          |          |          |          |        | _ | $\sqcup$   |
|     | L1.                  | 45         | $\dagger$    | $\dagger$         | t  | $\dagger\dagger$  |   | $\vdash$ | T        | 十            | +         |          | $\vdash$  | 7                  |               | 95       |                   | -            | Γ            | 1            | $\top$   | $\top$       | Τ      | Τ              | Ι         | Γ  | ]   |              | 145        |          |  |          |          |          |          | _      |   | $\sqcup$   |
|     |                      | 46         | Ť            |                   | 1  | $\dagger \dagger$ | _ | Т        | Τ        | †            | 7         | $\neg$   |           | 7                  | $\neg$        | 96       |                   |              | Г            | T            | Τ        |              | Γ      |                | I         |  | ]   |              | 146        |          |  |          |          |          | _        | _      |   | _  |
|     | -                    | 47         | 1            | IT                | 1  | #                 |   | Г        | 1        | $\top$       | 7         |          | $\Box$    | 7                  |               | 97       |                   |              | Г            | 1            | Τ        | Τ            | Г      | Г              | Γ         |  |     |              | 147        |          |  |          |          | Ш        | _        | _      |   | L  |
|     | -                    | 48         | +            | $\parallel$       | T  | #                 |   |          | T        | 1            | 7         | $\neg$   | $\Box$    | 7                  |               | 98       |                   |              |              | Ι            | Ι        | I            | I      |                |           |  |     |              | 148        |          | $\Box$   |          | _        | Ш        | _        |        |   | $\vdash$   |
|     |                      | 49         | 1            | V                 | 1  | V                 |   |          | Τ        | T            |           |          |           |                    |               | 99       |                   |              |              |              | L        | I            |        | Ľ              | Ĺ         |  | 1   | <u></u>      | 149        | L        |  | _        | _        | Ц        | _        | _      | _ |  |
|     |                      | 50         | 4            | V                 | Ŀ  | Ĭ                 |   |          |          |              |           |          |           | ] [                | $\Box$        | 100      |                   |              |              | L            |          |              | L      | L              | L         |  | j   | L            | 150        | L        |  | لـــا    |          | L_       |          |        |   | <b></b>  |
|     |                      |            |              |                   |    |                   |   |          |          |              |           |          |           |                    |               |          |                   |              |              |              |          |              |        |                |           |  |     |              |            |          |  |          |          |          |          |        |   |  |

If more than 150 claims or 10 actions staple additional sheet here